

(C) WPI / DERWENT

AN - 1992-403098 [49]  
 AP - JP19910091375 19910328; JP19910091375 19910328; [Based on J04300201 ]  
 CPY - SEKP  
 DC - D22 E36 P34  
 DR - 1896-P  
 FS - CPI;GMPI  
 IC - A23L3/358 ; A61K33/08 ; A61L2/18 ; B01D53/34 ; C01B11/02  
 MC - D09-A01A E31-C  
 M3 - [01] C017 C108 C200 C730 C800 C801 C803 C804 C805 C807 M411 M720 M903  
 M904 M910 N141 N309 N366 Q261 Q507 Q604; R01896-P; 9240-7  
 PA - (SEKP ) SEKISUI PLASTICS CO LTD  
 PN - JP4300201 A 19921023 DW199249 C01B11/02 004pp  
 - JP6049562B B2 19940629 DW199424 C01B11/02 004pp  
 PR - JP19910091375 19910328  
 XA - C1992-178885  
 XIC - A23L-003/358 ; A61K-033/08 ; A61L-002/18 ; B01D-053/34 ; C01B-011/02  
 XP - N1992-307389  
 AB - J04300201 Chlorine dioxide is prepd. by irradiating UV light on  
 chlorite aq. soln. with pH adjusted in an acidic range with pH-buffer  
 chemical.  
 - USE/ADVANTAGE - Chlorine dioxide is prepd. in a controlled manner, so  
 aq. soln. is used as steriliser, oxidising agent, or deodoriser. The  
 reaction is terminated at any time.  
 - In an example, a soln. dissolving 2.96 mM sodium chlorite has pH  
 adjusted at 4,6,8, 10 respectively with a phosphate buffer soln; UV  
 light with 240-260 nm wavelength emitted from a Xe lamp was irradiated  
 to the soln. in an amt. of 0.134 mW/cm<sup>2</sup>. The amts. of chlorine dioxide  
 generated changed with irradiation time and reached saturation values;  
 the pH4 soln. provided a saturation value of 0.560 mM, the pH6 soln.  
 provided 0.398 mM, the pH8 soln. provided 0.129 mM, and the pH10 soln.  
 provided 0.111 mM. (Dwg.0/4)  
 CN - R01896-P  
 DRL - 9240-7  
 IW - PREPARATION CHLORINE DI OXIDE IRRADIATE ULTRAVIOLET CHLORITE AQUEOUS  
 SOLUTION ADJUST PH ACIDIC RANGE PH BUFFER CHEMICAL DEODORISE OXIDATION  
 STERILE AGENT  
 IKW - PREPARATION CHLORINE DI OXIDE IRRADIATE ULTRAVIOLET CHLORITE AQUEOUS  
 SOLUTION ADJUST PH ACIDIC RANGE PH BUFFER CHEMICAL DEODORISE OXIDATION  
 STERILE AGENT  
 NC - 001  
 OPD - 1991-03-28  
 ORD - 1992-10-23  
 PAW - (SEKP ) SEKISUI PLASTICS CO LTD  
 TI - Preparing chlorine di:oxide by irradiating UV on chlorite aq. soln. -  
 including adjusting pH in acidic range using pH buffer chemical, for  
 use at deodoriser, oxidising or sterilising agent